

# Notice of Allowability

Application No.

09/658,303

Examiner

Tony Mahmoudi

Applicant(s)

HAAS ET AL.

Art Unit

2165

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Appeal brief filed on 09-August-2005.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

JEFFREY GAFFIN  
SUPERVISORY PATENT EXAMINER

## DETAILED ACTION

### *Remarks*

1. In response to the Appeal Brief filed on 09-August-2005, claims 1-22 are pending in the application, of which, claims 1, 9 and 17 are presented in independent form.

### *Allowance*

2. Claims 1-22 are allowed over the prior art made of record.
3. The following is an examiner's statement of reasons for allowance:

The appellants' arguments presented in the Appeal Brief, filed on 09-August-2005 have been fully considered and are deemed persuasive, in view of the descriptions provided by the specification:

Independent claim 1 recites, among other limitations, "grouping at least some values into potential sets"; "selecting candidate sets from at least some potential sets"; "grouping at least some candidate sets into covers"; and "using at least one cover, generating at least one query representing a source schema-to-target schema mapping". In view the specification's description of "cover", where, subsets are grouped into "covers" such that every value correspondence appears at least once in each cover, and that "covers" are presented in ranked order on, e.g., the output device,

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such that the user can then establish a selected cover by appropriately manipulating the input device, the above referenced limitations of claim 1 are not anticipated or suggested by the prior art made of record.

The prior art made of record does not teach or suggest the limitations of, “allowing a user, in a user interaction, to incrementally add or delete a value correspondence from the subset”; “based on the user interaction, generating a new mapping”; and “permitting the user to add or delete a value correspondence embodied in the new mapping to generate another mapping”, as recited in independent claim 9.

The prior art made of record does not teach or suggest the limitations of, “computer readable code means for generating subsets of value correspondences such that (1) each subset has at most one value correspondence per target attribute, (2) for each subset requiring more than one source relation to undertake a mapping, a join path can be found between the relations, and (3) each subset includes at least every value correspondence”, as recited in independent claim 17.

Claims 2-8 are allowed as dependents of allowed independent claim 1.

Claims 10-16 are allowed as dependents of allowed independent claim 9.

Claims 18-22 are allowed as dependents of allowed independent claim 17.

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***Conclusion***

4. Any inquiries concerning this communication or earlier communications from the examiner should be directed to Tony Mahmoudi whose telephone number is (571) 272-4078. The examiner can normally be reached on Mondays-Fridays from 08:00 am to 04:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffery Gaffin, can be reached at (571) 272-4146.

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September 28, 2005